

Bureau of Waste Prevention – Industrial Wastewater

BWP IW 38 & BWP IW 39

Permit for Industrial Sewer User

11200020	
Transmittal Number	
Facility ID# (if known)	

WOOFOOO

DEP Use Only

Important Instructions for Completing This Form

Date Received

The questions on this form apply to existing and new facilities discharging industrial wastewater to sewers. If you are completing this form for an existing facility, answer the questions as they apply to its current status. If you are completing this form for a new facility, your answers will reflect your commitment to comply with the requirements as set forth in each question.

Existing facilities are defined as facilities in existence as of July 12, 2007. New facilities are defined as facilities constructed after July 12, 2007.

Answer all questions, except those that you are directed to skip. Please DO NOT answer questions that you are directed to skip

Permit Category (Select One)

- ☐ BWP IW 38: Industrial Sewer User in IPP POTW discharging more than 50,000 GPD
- ⊠ BWP IW 39: Industrial Sewer User in Non-IPP POTW discharging more than 25,000 GPD

A. Facility Information

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return





Intel Massachusetts, Inc.	•	
1a. Facility Name	- 	· · · · · · · · · · · · · · · · · · ·
75 Reed Road		
1b. Facility Address 1		
1c. Facility Address 2		<u> </u>
Hudson	MA	01749
1d. City	1e. State	1f. Zip Code
978-553-4737	978-553-3202	·
1g. Phone Number	1h. Fax Number	
770474484		
1i. Federal Employer Tax Identification Number (FEIN or TIN)		•

Mailing Address: Check here if same as Facility Address and skip to Contact Information.

2a. Mailing Address: Street or P.O. Box 2b. Mailing Address 2 2c. City 2d. State 2e. Zip Code

Co

3e. Email Address

ntact Information:			
Robert King	• 		
3a. Contact Person Name			
Sr. Environmental Engineer			
3b. Contact Person Title			
978-553-4737			
3c. Phone Number		3d. Extension	
bob.king@intel.com			



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STRINE IOI INGC	astriai octroi	0001		Facin	y iD# (ii-kilowii)	
Industrial	Wastewat	er Informa	ition			
Project Descript	ion (Check All T	hat Apply)				
☐ 1a. New Con	struction		☐ 1b.	Permit Renewal		
☐ 1c. Increasin	g Flow From Exis	ting Connection	1d.	New or Modified Indus Pretreatment System (
	Jnpermitted Conn cted Before 7/12/0	ection 97)				
best describ	e the facility pro	ducing the disc	charge in term	dustrial Classification is of the principal proc pendix B in the Instru	ducts or services	
3674			SEMIC	CONDUCTORS AND	RELATED DEVI	
2a. SIC Code			Descrip	tion		
2b. SIC Code			Descrip	tion		
2c. SIC Code		<u> </u>	Descrip	Description		
2d. SIC Code			 Descrip	tion		
facility going	to the Publicly	Owned Treatm	ent Works (PC	v(s) in gallons per day OTW): 3c. Connection #	3d. Total Flow,	
SANITARY	50,000					
OANI AKI	GPD	GPI	<u> </u>	GPD	GPD	
INDUSTRIAL	750,000 GPD	GPI	<u> </u>	GPD	GPD	
TOTAL	800,000 GPD	GPC)	GPD	GPD	
4. Are you in co ⊠ Yes	□ No*	ne Massachuse	etts Historical	Commission requiren Massachusetts Historica an Submit This Applicat	l Commission	
	_			I Policy Act (MEPA) r		
⊠ Yes		*If No, You Must Submit This App		MEPA Requirements BE	FUNE TOU CALL	



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B. Industrial Wastewater	Information	(continued)
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Check all pollutants that treated, before discharge		industrial wastewater before	pretreatment, or if not
☐ 6a. Metals, Asbestos, Cya	nide, Phenols		
If Metals, Asbestos, Cyani (mg/L):	de, or Phenols are pi	resent, provide concentration	s in milligrams per liter
1. Antimony (total) (Sb)	mg/L	9. Nickel (total) (Ni)	ND mg/L
2. Arsenic (total) (As)	ND mg/L	10. Selenium (total) (Se)	ND mg/L
3. Beryllium (total) (Be)	ND mg/L	11. Silver (total) (Ag) mg/L 12. Thallium (total) (TI) mg/L 13. Zinc (total) (Zn) ND mg/L 14. Asbestos mg/L 15. Cyanide (total) (CN)	ND
4. Cadmium (total) (Cd)	ND mg/L		mg/L
5. Chromium (hexavalent)	ND mg/L		
6. Chrome (total) (Cr)	Chrome (total) (Cr) ND mg/L Copper (total) (Cu) 40 mg/L		mg/L
7. Copper (total) (Cu)			mg/L
8. Lead (total) (Pb)	1.5 mg/L	16. Phenols (total)	mg/L
☑ 6b. Toxic Pollutants (See If Toxic Pollutants are prese (ug/L):		Instructions.) Toxic Pollutants concentratio	n in micrograms per lite
ND 6b1. Total Toxic Pollutants Concer	ntration (ug/L)	NOTE: Use the Toxic Polluta toxic chemicals and their cond	
☐ 6c. Total Petroleum Hydr	ocarbons (TPH) > 1	5 mg/L	
☑ 6d. pH <5 and >10 Stand	lard Units (S.U)		
⊠ 6e. Other*			
'If Other Pollutants are pres	ent, describe them:		
Phosphorus			



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7. Is Mercurv	(Hg) present in your ind	ustrial wastewater before pretreatment, or if not treated, befo
discharge?	(
☐ Yes	⊠ No*	*If No, skip to Question 8.
7a. If Yes, have eliminate the		sible mercury sources and taken all reasonable steps to
☐ Yes*	□ No	*If Yes, skip to Question 8.
7b. If No, expl	ain why.	
	· · · · · · · · · · · · · · · · · · ·	
	name of the Publicly Ov See Appendix C in the Ir	wned Treatment Works (POTW) that receives your
wastewater? (See Appendix C in the Ir	
wastewater? (See Appendix C in the Ir	
Hudson WWTI Name of POTW 9. Do you have	See Appendix C in the Ir	nstructions.) ction discharge permit or a current written approval issued by
Hudson WWTI Name of POTW 9. Do you have	See Appendix C in the Ir F a current sewer connection	nstructions.) ction discharge permit or a current written approval issued by
wastewater? (3 Hudson WWTI Name of POTW 9. Do you have your local POT	See Appendix C in the Ir a current sewer connect W? (See Section 17B in	nstructions.) ction discharge permit or a current written approval issued by the Instructions.) *If No, you must obtain either a permit or, if a permit is no required, a written approval from your local POTW to
wastewater? (3 Hudson WWTI Name of POTW 9. Do you have your local POT	See Appendix C in the Ir a current sewer connect W? (See Section 17B in	ction discharge permit or a current written approval issued by the Instructions.) *If No, you must obtain either a permit or, if a permit is no required, a written approval from your local POTW to discharge BEFORE you can submit this application.
wastewater? (Signature of POTW) 9. Do you have your local POTW Yes If you have a p	See Appendix C in the In a current sewer connect (See Section 17B in No* ermit, provide the follow	ction discharge permit or a current written approval issued by the Instructions.) *If No, you must obtain either a permit or, if a permit is not required, a written approval from your local POTW to discharge BEFORE you can submit this application.
wastewater? (in the Hudson WWT) Name of POTW 9. Do you have your local POT Yes If you have a part of the Hudson WWT 001 9a. Permit Number	See Appendix C in the In a current sewer connect W? (See Section 17B in No* ermit, provide the follow	ction discharge permit or a current written approval issued by the Instructions.) *If No, you must obtain either a permit or, if a permit is not required, a written approval from your local POTW to discharge BEFORE you can submit this application. ring information, then skip to Question 10.
wastewater? (in the Hudson WWT! Name of POTW) 9. Do you have your local POT	See Appendix C in the In F a current sewer connect W? (See Section 17B in No* ermit, provide the follow ritten approval, provide	ction discharge permit or a current written approval issued by the Instructions.) *If No, you must obtain either a permit or, if a permit is not required, a written approval from your local POTW to discharge BEFORE you can submit this application. ring information, then skip to Question 10. 09/19/2009 9b. Permit Expiration Date
wastewater? (Secondary Secondary Sec	See Appendix C in the In F a current sewer connect W? (See Section 17B in No* ermit, provide the follow r ritten approval, provide	ction discharge permit or a current written approval issued by the Instructions.) *If No, you must obtain either a permit or, if a permit is not required, a written approval from your local POTW to discharge BEFORE you can submit this application. ring information, then skip to Question 10. 09/19/2009 9b. Permit Expiration Date the following information: 9d. Name of Person Who Signed the Letter
wastewater? (Secondary Secondary Sec	See Appendix C in the In F a current sewer connect W? (See Section 17B in No* ermit, provide the follow r ritten approval, provide	ction discharge permit or a current written approval issued by the Instructions.) *If No, you must obtain either a permit or, if a permit is not required, a written approval from your local POTW to discharge BEFORE you can submit this application. ring information, then skip to Question 10. 09/19/2009 9b. Permit Expiration Date the following information:



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3. Industrial Wast	ewater Info	rmation (continued)
		ction discharge permit or a current written approval issued by on 17B in the Instructions.)
☐Yes	□ No*	If No, you must obtain either a permit or written approval from your local Sewer Authority to discharge BEFORE yo can submit this application.
If you have a permit, p	ovide the following	ng information, then skip to Question 12.
11a. Permit Number	<u> </u>	11b. Permit Expiration Date
If you have a written ap	proval, provide th	he following information:
11c. Date of Approval Letter		11d. Name of Person Who Signed the Letter
12. Is your facility curre Regulations? (See App		a Categorical Industrial User (CIU) pursuant to Federal structions.)
⊠ Yes [□ No*	*If No, skip to Section C.
12a. List all the Categor	rical Pretreatmen	t Standards applicable to your facility.
Part 469		Electrical and Electronic Components
12a1. Part Number		Point Source Category
12a2. Part Number		Point Source Category
12a3. Part Number		Point Source Category
12a4. Part Number		Point Source Category
Industrial Waste	water Pretr	eatment System
Do you have an on-sit wastewater?	te industrial waste	ewater pretreatment system (IWPS) to treat your industrial
⊠ Yes □] No*	*If No, skip to Section D.
1a. How many IWPSs do	you have?	
5 Number		NOTE: If you have more than one IWPS, please use an Additional IWPS Form for each additional IWPS.
1b. Provide a unique ide	ntifier (i.e. name)	for this IWPS:
HD-1 Acid Waste Neutra	lization (AWN)	
Identifications		



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. Industria	l Wastewater Pro	etreatment System (continued)
1c. What is th	e Total Design Capacity	of this IWPS?
172,800		
Gallons Per Day		
1d. What is th	e Average Daily Flow of	this IPWS? (Estimate if this is a new facility.)
30,000		
Gallons Per Day		
1e. What is th	e Maximum Daily Flow o	of this IWPS? (Estimate if this is a new facility.)
35,000		
Gallons Per Day		
		cted to meet all local discharge standards and the applicable dards in 40 CFR Chapter I, Subchapter N?
⊠ Yes	□ No*	*If No, you must take immediate steps to address the non- compliance BEFORE you can submit this application.
	VPS treat hazardous ind 314 CMR 7.02?	ustrial wastewater or hazardous industrial wastewater sludge
⊠Yes	□ No*	*If No, skip to Question 12.
3a. Are you tre	eating concentrated cher	nical baths, e.g. spent chemical baths, or off-specification
☐Yes	⊠ No*	*If No, skip to Question 4.
3b. If Yes, des	cribe the concentrated c	hemical baths you are treating.
e		
	VPS meet the requireme	ents of "treatment which is an integral part of the manufacturing 0?
⊠ Yes*	□ No	*If Yes, skip to Question 7.
		stewater or hazardous industrial wastewater sludge that is uction processes, in tanks or containers?
located in a Drink	king Water Zone (see Secti	of hazardous industrial wastewater or sludge and your IWPS is on 17C of the Instructions; reference language in 310 CMR 30.605), 8 or BWP IW 39 permit. You must use form BWP IW 40 instead.

☐ Yes

☐ No*

*If No, skip to Question 7.



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, in the second			Facility ID# (if known)
C. Industrial W	/astewater	Pretreati	ment System (continued)
6. Are you in com 343? (See Section	pliance with the n 17C in the Ins	requirements tructions)	s for tanks and containers in 310 CMR 30.342 and
☐ Yes	□ No*		*If No, you must take immediate steps to address the nor compliance BEFORE you can submit this application.
7. Do you have a identification num		ntal Protectio	n Agency (EPA) hazardous waste generator
⊠Yes	☐ No*		*If No, skip to Question 7b.
7a. What is your E	EPA identification	n number?	
MAR000010504 EPAID#			Skip to Question 8.
7b. Explain why yo	ou do not have a	an EPA identi	fication number.
⊠ Yes* 8a. Explain why yo	□ No u do not have a	visible sign i	*If Yes, skip to Question 9.
9.Do you have the ≀	required spill co	ntainment for	the IWPS? (See Section 17C in the Instructions.)
⊠ Yes*	□ No	•	*If Yes, skip to Question 10.
9a. Explain why yοι	u do not have th	e required sp	ill containment.
•			ing from a 100-year storm? (See Section 17C in the
∃ Yes	⊠ No*		*If No, skip to Question 12.



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. Industrial W	lastewater F	Pretreatment System (continued)	
11. Are you in cor 17C in the Instruc		flood-proofing provisions in 310 CMR 30.701(2)? (See Se	ection-
Yes	□ No*	*If Yes, skip to Question 12.	
11a. Explain why	you are not in cor	mpliance with the flood-proofing provisions in 310 CMR 3	0.701(2).
			_
12 What type of I	WPS do vou have	e? (Check all that apply.)	
• •		ewater Pretreatment System (FAIWPS)	
☑ Continuous Dis		☐ Batch IWPS	
		ification? (See Section 17C in the Instructions.)	
☐ Yes*	⊠ No	*If Yes, skip to Question 14.	
13a. What is the c Treatment Facilitie		is IWPS? (See 257 CMR 2.13: Classification of Wastewat	er.
☐ Class 1I	□ C	Class 2I	
⊠ Class 4l	ПС	Class 5 or 6C ☐ Class 1M	
☐ Class 2M	□с	Class 3M ☐ Class 4M	
13b. How was the	IWPS' classificati	ion determined?	
☐ In accordance v	with the requireme	ents in 314 CMR 7.05(2)(g) 4. c. or d.	
☐ By the Board of	Certification of O	perators of Wastewater Treatment Facilities	
⊠ Both			
14. Is the IWPS sta 17C in the Instructi		ce with the requirements of 314 CMR 7.05(2)(g) 5? (See	Section
⊠ Yes*	□No	*If Yes, skip to Question 15.	



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C. Industrial	Wastewater Pr	retreat	ment System (continued)
14a. Explain w	hy the IWPS is not sta	affed in ac	ccordance with 314 CMR 7.05(2)(g) 5.
15. Is this your IWPS? Or, is the or BWP IW 39	his application a reque	under Pe est for mo	ermit Category BWP IW 38 or BWP IW 39 for this odification of this IWPS that currently has a BWP IW 3
⊠ Yes*	□No		*If Yes, you need to submit as an attachment the proces flow diagram and description of the principal treatment processes for your IWPS. Otherwise, skip to Question 1
16. How many a	attachments are includ	led with th	his application in response to Question 15?
One attachmen	t which includes PFD's iptions for all 5 IWPS's	s and	
17. Have your s design and cons	ewer connection and l struction standards as	IWPS bee set forth i	en designed and constructed in compliance with the in 314 CMR 7.05(2)(g)3?
⊠ Yes	□ No*		*If No, skip to Question 17b.
17a. What is the engineering plar	Massachusetts Regis	stered Pro	ofessional Engineer (MAPE) signature date on the
2/2/2001 Date		*	Skip to Question 18.
17b. Explain why compliance with	y your sewer connection the design and constr	on and IW ruction sta	VPS have not been designed and constructed in andards as set forth in 314 CMR 7.05(2)(g)3.
	·		
18. Provide the fo (MAPE) who revi	ollowing information at ewed, stamped, and s	bout the Magned you	Massachusetts Registered Professional Engineer ur engineering plans:
James M. Arnold	<u> </u>		412-269-4330
18a. Name			18b. Phone Number
41144		- '	Chemical
18c. Mass. P.E. Licen	se Number		18d. Mass. P.E. Specialty



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C. Industrial	Wastewater Pretre	eatment System (contin	nued)
	ve an IWPS operation and ments in 314 CMR 7.05(2)(g)	naintenance manual that comp 6.?	olies with the procedures and
⊠ Yes*	□ No	*If Yes, skip to Question 2	20.
19a. Explain w	hy you do not have the requ	ired IWPS operation and mai	ntenance manual.
	· · · · · · · · · · · · · · · · · · ·		
20. Are you kee	eping your IWPS operation a	and maintenance manual curr	ent?
⊠ Yes	□No		
21. Are you imp	plementing your IWPS opera	ation and maintenance manua	11?
⊠ Yes	□ No		
. Monitoring	g, Reporting & Rec	ordkeeping	·
		sewer discharge permit(s), IW applicable) on-site at all times	
⊠ Yes*	□No	* If Yes, skip to Question 2	2.
1a. Explain why	you are not keeping these	records on-site at all times.	
records, operation	on and maintenance records nentation of the safety plan,	s including your wastewater m s and logs, bills of lading, sun and hazardous waste manife	nmary reports of all incidents
⊠ Yes*	□No	* If Yes, skip to Question 3	•
2a. Explain why	you are not keeping these r	ecords on-site for at least thre	ee years.
		· · · · · · · · · · · · · · · · · · ·	



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D. Monitoring, Reporting & Recordkeeping (continued)

3. [Reserved for Toxics Reporting]

Additional reporting requirements will be added to this section in the future.

E.	General	& S	specific	Prof	nib	oitions

	y reviewing all of the ge h these General and Sp	eneral and specific prohibitions listed below, are you in ecific Prohibitions?
⊠ Yes*	□No	*If Yes, read Section F and then complete Section G.
	he prohibitions you are i to this form, if necessary	not in compliance with and explain why. Attach an additional

- 1. General Prohibitions. The permittee shall not:
 - a. Discharge, or cause to be discharged to a POTW, any substances, materials, or wastewater that may:
 - i. harm the sewers, POTW wastewater treatment process or equipment;
 - ii. have an adverse impact on the receiving waters; or
 - iii. otherwise create a nuisance or endanger public health, safety, or the environment.
 - b. Introduce pollutants into POTWs that pass through the POTW or interfere with its operation or performance.
 - c. Discharge wastewater or allow discharge of wastewater through any sewer connection that would result in a hazard to the public health or safety.
 - d. Discharge bypass wastewater or allow discharge of bypass wastewater through any sewer connection. If bypassing due to an emergency condition occurs, the Department and POTW shall be notified in accordance with 314 CMR 7.04(3). Such notification or its acknowledgement shall not be construed as permission by the Department or POTW to discharge bypass wastewater.
 - e. Discharge hazardous waste or allow the discharge of hazardous waste through any sewer connection.
- **2. Specific Prohibitions.** The permittee shall not introduce into a POTW or its wastewater collection system the following:
 - a. Pollutants which may create a fire, explosion, or other hazard in the POTW or its wastewater collection system.
 - b. Pollutants which may cause corrosive structural damage to the POTW or its wastewater collection system. In no case shall discharges with a pH lower than 5.0 Standard Unit (S.U) or more than 10.0 S.U. be allowed, unless the local limit allows such discharges.
 - c. Solid or viscous pollutants in amounts which may cause obstruction to the flow in the POTW or its wastewater collection system or may result in interference.
 - d. Any pollutant, including oxygen-demanding pollutants, discharged at a flow rate or pollutant concentration that will cause interference with the POTW or its wastewater collection system.
 - e. Heat in amounts which may inhibit biological activity in the POTW, resulting in interference. In no case shall heat in such quantities that the temperature at the POTW treatment plant exceeds 40° C (104° F) be discharged, unless the Department, upon request of the POTW, approves alternate temperature limits.



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F. Additional Conditions

a. All discharges shall be in compliance with the terms and conditions of this permit. The discharge of any wastewater at a level in excess of that identified and authorized by this permit shall constitute a violation of the terms and conditions of this permit. Such a violation may result in the imposition of civil and/or criminal penalties as provided for in M.G.L. c.21, Section 42.

b. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

i. Violation of any terms or conditions of the permit;

ii. Obtaining a permit by misrepresentation or failure to disclose fully all relevant facts; or

iii. A change in conditions or the existence of a condition, which requires either a temporary or permanent reduction, or elimination of the authorized discharge.

c. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges; nor does it authorize or relieve the permittee of any liability for any injury to private property or any invasion of personal rights; nor any infringement of Federal, State, or local laws or regulations; nor does it waive the necessity of obtaining any local assent required by law for the discharge authorized herein by the Department.

d. The provisions of this permit are severable, and the invalidity of any condition or subdivision thereof

shall not make void any other condition or subdivision thereof.

- e. All information and data provided by an applicant or a permittee identifying the nature and frequency of a discharge shall be available to the public without restriction. All other information (other than effluent data) which may be submitted by an applicant in connection with a permit application shall also be available to the public unless the applicant or permittee is able to demonstrate that the disclosure of such information or particular part thereof to the general public would divulge methods or processes entitled to protection as trade secrets in accordance with the provisions of M.G.L. c.21, Section.27(7). Where the applicant or permittee is able to so demonstrate, the Department shall treat the information or the particular part (other than effluent data) as confidential and not release it to any unauthorized person. Such information may be divulged to other officers, employees, or authorized representatives of the Commonwealth or the United States Government concerned with the protection of public water or water supplies.
- f. Transfer of Permits. Any sewer system connection permit authorizing an industrial discharge to a sewer system is only valid for the person to whom it is issued, unless prior to transfer:
 - i. The current permittee notifies the Department in writing at least 30 days in advance of the proposed transfer date; and
 - ii. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibilities, and liability to the new permittee.
- g. This permit authorizing the discharge expires five (5) years from the date of issuance. The permittee shall apply for a renewal of this permit at least ninety (90) days prior to the expiration date, in accordance with 314 CMR 7.09(3)(b) for continued lawful discharges beyond the expiration date. h. All solids, sludge, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be collected, treated, and disposed of in accordance with applicable provisions in the following:
 - i. Hazardous waste regulations (310 CMR 30.000).
 - ii. Solid waste regulations (310 CMR 19.00).
 - iii. Sewer discharge regulations (314 CMR 7.00).
 - iv. Any other applicable federal, state and local laws.
- i. All samples shall be analyzed by a Massachusetts Certified Laboratory.
- j. The permittee shall provide the Department, and the Department's employees, authorized representatives and contractors, access at to the facility at all reasonable times, including during wastewater treatment system operation or wastewater discharge, for purposes of conducting activities related to oversight of this permit, including inspections to monitor compliance with the terms herein. The permittee shall allow the Department to obtain information related to compliance with the requirements of this permit. Notwithstanding any provision of this permit, the Department retains all of its access authorities and rights under applicable state and federal law.



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G. Certification Statement

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true accurate, and complete. I certify that this facility is in compliance with all conditions and requirements of this permit, and all applicable statutes and regulations. I further certify that systems to maintain compliance are in place at the facility or unit and will be maintained even if processes or operating procedures are changed. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations."

(I will be responsible for publication of public notice of the applicable permit proceedings identified under 314 CMR 2.06(1)(a) through (d).)

MassDEP Use Only

Name of Regional BWP Section Chief

Printed Name of Applicant	_
Hudson Corporate Services Manager	
Title ///	_
- Spary tudden	
Signature of Applicant	_
2/4/08	
Date Signed	-
Robert King	
Name of Preparer	_
Sr. Environmental Engineer	
Title	_
978-553-4737	

Jeffrey Fadden

Phone Number

		-				<u></u>
		-				
•			· ·		· · · · · · · · · · · · · · · · · · ·	
•						
						,
his document is a permit issued pursuant to Ma	assachuset	ts General	Laws, Cha	pter 21, Se	ction 43 a	and
assachusetts regulations at 314 CMR 7.00. The permit application which are hereby incorpora	e permittee	shall com	ply with all	of the provi	isions cor	ntained in
p pormit application which are necessy incorpora	aleu anu m	iade part o	uns perm	τ.		
11/-1-	•					
4/17/08						
te issued	-	1	1			
4/17/68		4/17	//3			



BWP IW 38 & BWP IW 39

Permit for Industrial Sewer User

W205023

Transmittal Number

306108

Facility ID# (if known)

ATTACHMENT 1.

Special Conditions:

- 1. The permittee shall maintain compliance with the Town of Hudson's sewer use requirements and the terms and conditions of any applicable wastewater discharge permits issued by the town.
- 2. The permittee shall comply with the Effluent Guidelines and Standards at 40 CFR, Chapter I, Subchapter N, Part 469 Electrical and Electronic Components Point Source Category, and applicable subcategories.
- 3. The permittee shall notify MassDEP of additional Effluent Guidelines and Standards as they are determined to be applicable to the facility.
- 4. The documents and materials attached to and referenced in the permit application are incorporated as part of the permit.



Additional IWPS Form Use With BWP IW 38 & BWP IW 39

W205023	
Transmittal Num	ber
Facility ID# (if kn	own)
BWP IW 39	•

Instructions: Submit a completed copy of this form for each additional Industrial Wastewater Pretreatment System (IWPS) not identified on your BWP IW 38/BWP IW 39 permit application.

Industrial Wastewater Pretreatment System (IWPS) Information

NOTE: Question numbers on this form are identical with those on the BWP IW 38/BWP IW 39 permit application or Industrial Sewer Connection Certification forms. Questions 1 and 1a have been intentionally omitted.

1b. Please p	rovide a unique identifie	r (i.e. name) for this IWPS:
HD-1 Dilute i (DLW)	Lead Waste Treatment S	System
1c. What is th	ne Total Design Capacit	y of this IWPS?
100,800		
Gallons Per Day		
1d. What is th	ne Average Daily Flow o	f this IPWS? (Estimate if this is a new facility.)
30,000	_	· · · · · · · · · · · · · · · · · · ·
Gallons Per Day		
1e. What is th	ne Maximum Daily Flow	of this IWPS? (Estimate if this is a new facility.)
35,000		
Gallons Per Day		•
2. Is your IWF Categorical In	PS designed and construdustrial User (CIU) stan	cted to meet all local discharge standards and the applicable dards in 40 CFR Chapter I, Subchapter N?
⊠ Yes	□ No*	*If No, you must take immediate steps to address the non-compliance BEFORE you can submit this application.
3. Does this IV as defined in 3	VPS treat hazardous inc 314 CMR 7.02?	lustrial wastewater or hazardous industrial wastewater sludge
⊠ Yes	□ No*	*If No, skip to Question 12.
3a. Are you tre products?	eating concentrated cher	nical baths, e.g. spent chemical baths, or off-specification
☐ Yes	⊠ No*	*If No, skip to Question 4.
3b. If Yes, desc	cribe the concentrated c	hemical baths you are treating:



Additional IWPS Form

Use With BWP IW 38 & BWP IW 39

W205023	
Transmittal Number	
Facility ID# (if known)	
BWP IW 39	
Permit Code	

		T CHINE GOOD
WPS Informa	ation (continued)	
4. Does your IV process" as def	VPS meet the requirem fined in 310 CMR 30.01	ents of "treatment which is an integral part of the manufacturing 10?
⊠ Yes*	□ No ′	*If Yes, skip to Question 7.
5.Do you store generated in yo	hazardous industrial wour IWPS or in your pro	astewater or hazardous industrial wastewater sludge that is duction processes and stored in tanks or containers?
located in a Drink	ding Water Zone (see Sec	ge of hazardous industrial wastewater or sludge and your IWPS is stion 17C of the Instructions; reference language in 310 CMR 30.605), 38 or BWP IW 39 permit. You must use form BWP IW 40 instead.
☐ Yes	□ No*	*If No, skip to Question 7.
6. Are you in co 343? (See Sect	mpliance with the requion 17C in the Instruction	irements for tanks and containers in 310 CMR 30.342 and ons)
□Yes	□ No*	*If No, you must take immediate steps to address the non-compliance BEFORE you can submit this application.
7. Do you have identification nu	a U.S. Environmental F mber?	Protection Agency (EPA) hazardous waste generator
⊠ Yes	□ No*	*If No, skip to Question 7b.
7a. What is you	r EPA identification nur	nber?
MAR000010504	<u> </u>	Skip to Question 8.
EPA ID# 7b. Explain why	you do not have an EF	PA identification number.
8. Do you have	a visible sign in place t	hat warns against unauthorized entry into the IWPS area?
⊠ Yes*	□No	*If Yes, skip to Question 9.
8a. Explain why	you do not have a visil	ble sign in place.
		· · · · · · · · · · · · · · · · · · ·
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Additional IWPS Form Use With BWP IW 38 & BWP IW 39

W205023	
Transmittal Number	
Facility ID# (if known)	
BWP IW 39	
Permit Code	

Additional	IWPS	Information	(continued)
			1601111111111111

9.Do you have	the required spill contain	nment for the IWPS? (See Section 17C in the Instructions.)
⊠ Yes*	☐ No	*If Yes, skip to Question 10.
9a. Explain wh	y you do not have the rec	ąuired spill containment.
10. Is your IWF	PS located on land subjec	t to flooding from a 100-year storm? (See Section 17C in the
□Yes	⊠ No*	*If No, skip to Question 12.
11. Are you in o	compliance with the flood- uctions.)	-proofing provisions in 310 CMR 30.701(2)? (See Section
☐ Yes*	□ No	*If Yes, skip to Question 12.
11a. Explain wh	y you are not in complian	nce with the flood-proofing provisions in 310 CMR 30.701(2)
12. What type of	f IWPS do you have? (Ch	eck all that apply.)
☐ Fully Automa	ted Industrial Wastewater	Pretreatment System (FAIWPS)
☑ Continuous D	ischarge IWPS	☐ Batch IWPS
13. Is the IWPS	exempt from classification	n? (See Section 17C in the Instructions.)
☐ Yes*	⊠ No	*If Yes, skip to Question 14.
13a. What is the Treatment Facilit	classification of this IWPSies.)	S? (See 257 CMR 2.13: Classification of Wastewater
☐ Class 1I	☐ Class 2l	☐ Class 3i
⊠ Class 4I	☐ Class 5	or 6C ☐ Class 1M
☐ Class 2M	☐ Class 3ñ	M ☐ Class 4M



Additional IWPS Form Use With BWP IW 38 & BWP IW 39

VV200020	
Transmittal Number	
Facility ID# (if known)	_
BWP IW 39	
Permit Code	

Additional IWPS Information (continued)

13b. How was	the IWPS' classification	on determined?
☐ 13b1. ln ac	cordance with the requ	uirements in 314 CMR 7.05(2)(g) 4. c. or d.
☐ 13b2. By th	ne Board of Certification	n of Operators of Wastewater Treatment Facilities
☑ 13b3. Both		
14. Is the IWP 17C in the Ins		e with the requirements of 314 CMR 7.05(2)(g) 5? (See Section
. ⊠ Yes*	□No	*If Yes, skip to Question 15.
14a. Explain w	hy the IWPS is not sta	affed in accordance with 314 CMR 7.05(2)(g) 5.
-		
IWPS? Or, is or BWP IW 39	this application a reque	n under Permit Category BWP IW 38 or BWP IW 39 for the est for modification of the IWPS that currently has a BWP IW 38 *If Yes, you need to submit as an attachment the process flow diagram and description of the principal treatment processes for your IWPS.
16. How many	attachments are include	ded with this application in response to Question 15?
One attachmer	nt which includes PFD's	
		IWPS been designed and constructed in compliance with the set forth in 314 CMR 7.05(2)(g)3?
⊠ Yes	□ No*	*If No, skip to Question 17b.
17a. What is the		stered Professional Engineer (MAPE) signature date on the
07/05/2001	<u> </u>	Skip to Question 18.
Date	•	



Additional IWPS Form Use With BWP IW 38 & BWP IW 39

W205023	
Transmittal Number	
	-
Facility ID# (if known)	
BWP IW 39	
Permit Code	

		ction and IWPS have not been designed and constructed in struction standards as set forth in 314 CMR 7.05(2)(g)3.
		7. a.s. (a.) (a.) (a.) (a.) (a.) (a.) (a.) (a.
	**	
	e name of the Massach signed your engineerin	husetts Registered Professional Engineer (MAPE) who reviewed ng plans:
James M. Arne	old	412-269-4330
18a. Name		18b. Phone Number
41144		Chemical
18c. Mass. P.E. L	icense Number	18d. Mass. P.E. Specialty
⊠ Yes*	☐ No	*If Yes, skip to Question 20.
19a. Explain w	hy you do not have an	IWPS operation and maintenance manual.
	•	
20. Are vou ke	ening your IWPS opera	ation and maintenance manual current?
	-F9 Jam obota	
⊠ Yes	☐ No	
21. Are you imp	plementing your IWPS	operation and maintenance plan manual?
⊠ Yes	□ No	,



Bureau of Waste Prevention – Industrial Wastewater

Additional IWPS Form Use With BWP IW 38 & BWP IW 39

W205023	
Transmittal Number	-
Facility ID# (if known)	
BWP IW 39	

Permit Code

Instructions: Submit a completed copy of this form for each additional Industrial Wastewater Pretreatment System (IWPS) not identified on your BWP IW 38/BWP IW 39 permit application.

Industrial Wastewater Pretreatment System (IWPS) Information

NOTE; Question numbers on this form are identical with those on the BWP IW 38/BWP IW 39 permit application or Industrial Sewer Connection Certification forms. Questions 1 and 1a have been intentionally omitted.

1b. Please pr	ovide a unique identific	er (i.e. name) for this IWPS:
HD-3 (CUB) S System (SCV	Slurry Copper Waste T V)	reatment
1c. What is th	e Total Design Capaci	ty of this IWPS?
50,400 Gallons Per Day	•	
1d. What is th	e Average Daily Flow	of this IPWS? (Estimate if this is a new facility.)
19,000		
Gallons Per Day		·
1e. What is th	e Maximum Daily Flow	of this IWPS? (Estimate if this is a new facility.)
20,000		
Gallons Per Day		
2. Is your IWP Categorical In	'S designed and constr dustrial User (CIU) sta	ructed to meet all local discharge standards and the applicable ndards in 40 CFR Chapter I, Subchapter N?
⊠ Yes	□ No*	*If No, you must take immediate steps to address the non- compliance BEFORE you can submit this application.
3. Does this IV as defined in 3	VPS treat hazardous in 314 CMR 7.02?	ndustrial wastewater or hazardous industrial wastewater sludge
⊠ Yes	□ No*	*If No, skip to Question 12.
3a. Are you tre products?	eating concentrated che	emical baths, e.g. spent chemical baths, or off-specification
∐ Yes	⊠ No*	*If No, skip to Question 4.
3b. If Yes, des	cribe the concentrated	chemical baths you are treating:
		3
	·	
•		



Additional IWPS Form

W205023	
Transmittal Number	
Facility ID# (if known)	
BWP IW 39	
Permit Code	

Use With BWP IW 38 & BWP IW 39

NPS Informati	on (continued)	
	S meet the requirements o	f "treatment which is an integral part of the manufacturing
⊠ Yes*	□ No	*If Yes, skip to Question 7.
		ater or hazardous industrial wastewater sludge that is n processes and stored in tanks or containers?
located in a Drinking	Water Zone (see Section 17	izardous industrial wastewater or sludge and your IWPS is C of the Instructions; reference language in 310 CMR 30.605), BWP IW 39 permit. You must use form BWP IW 40 instead.
☐ Yes	□ No*	*If No, skip to Question 7.
	liance with the requiremer 17C in the Instructions)	nts for tanks and containers in 310 CMR 30.342 and
☐ Yes	□ No*	*If No, you must take immediate steps to address the non- compliance BEFORE you can submit this application.
7. Do you have a U		ion Agency (EPA) hazardous waste generator
⊠ Yes	□ No*	*If No, skip to Question 7b.
7a. What is your EF	PA identification number?	
MAR000010504 EPA ID #		Skip to Question 8.
	u do not have an EPA ider	ntification number.
		
		, , ,
8. Do you have a vi	sible sign in place that war	rns against unauthorized entry into the IWPS area?
⊠ Yes*	□No	*If Yes, skip to Question 9.
8a. Explain why you	ı do not have a visible sigr	n in place.
. '	<u> </u>	
	· 	



Additional IWPS Form Use With BWP IW 38 & BWP IW 39

W205023	
Transmittal Number	
Facility ID# (if known)	
·	
BWP IW 39	
Permit Code	

Additional IWPS Information (continued)

9.Do you have	the required spill conta	inment for the IWPS? (Se	e Section 17C in the Instructions.)
⊠ Yes*	□ No	*If Yes, skip to Qu	uestion 10.
9a. Explain wh		equired spill containment.	
·			
	•		
10. Is your IWI	PS located on land subje	ect to flooding from a 100-y	vear storm? (See Section 17C in the
☐ Yes	⊠ No*	*If No, skip to Que	estion 12.
11. Are you in o	compliance with the floor uctions.)	d-proofing provisions in 31	0 CMR 30.701(2)? (See Section
☐ Yes*	□ No	*If Yes, skip to Qu	estion 12.
11a. Explain w	ny you are not in complia	ance with the flood-proofing	g provisions in 310 CMR 30.701(2).
	•		
12. What type o	f IWPS do you have? (C	Check all that apply.)	
☐ Fully Automa	ited Industrial Wastewat	er Pretreatment System (F	AIWPS)
☑ Continuous [Discharge IWPS	☐ Batch IWPS	
13. Is the IWPS	exempt from classificati	on? (See Section 17C in the	ne Instructions.)
☐ Yes*	⊠ No	*If Yes, skip to Que	stion 14.
13a. What is the Treatment Facili		PS? (See 257 CMR 2.13:	Classification of Wastewater
☐ Class 1I	☐ Class	21	☐ Class 3l
⊠ Class 4I	☐ Class	5 or 6C	☐ Class 1M
☐ Class 2M	☐ Class	3M	☐ Class 4M



Additional IWPS Form Use With BWP IW 38 & BWP IW 39

W205023	
Transmittal Number	
Facility ID# (if known)	
BWP IW 39	
Permit Code	

Additional IWPS Information (continued)

13b. How was t	the IWPS' classification	on determined?
☐ 13b1. ln acc	ordance with the requ	uirements in 314 CMR 7.05(2)(g) 4. c. or d.
☐ 13b2. By the	Board of Certification	n of Operators of Wastewater Treatment Facilities
☑ 13b3. Both		
14. Is the IWPS		e with the requirements of 314 CMR 7.05(2)(g) 5? (See Section
⊠ Yes*	□ No	*If Yes, skip to Question 15.
14a. Explain wh	y the IWPS is not sta	affed in accordance with 314 CMR 7.05(2)(g) 5.
IWPS? Or, is the or BWP IW 39 p	is application a reque	under Permit Category BWP IW 38 or BWP IW 39 for the est for modification of the IWPS that currently has a BWP IW 38 *If Yes, you need to submit as an attachment the process flow diagram and description of the principal treatment processes for your IWPS.
16 How many a	ttachments are includ	ded with this application in response to Question 15?
One attachment	which includes PFD's all 5 IWPS's - Atta	s and
		IWPS been designed and constructed in compliance with the set forth in 314 CMR 7.05(2)(g)3?
⊠ Yes	□ No*	*If No, skip to Question 17b.
17a. What is the engineering plan		stered Professional Engineer (MAPE) signature date on the
04/26/2001 Date		Skip to Question 18.



Additional IWPS Form Use With BWP IW 38 & BWP IW 39

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Transmittal Number

Facility ID# (if known)

BWP IW 39 Permit Code

	WILL LIFE DESIGN AND CONSU	ruction standards as set forth in 314 CMR 7.05(2)(g)3.	1
		2,19,00	
	•		
	,		
	-	· .	·
*			
	the name of the Massachu d signed your engineering	setts Registered Professional Engineer (MAPE) who rev plans:	iewe
Charles Alar	1	412-269-4330	
18a. Name		18b. Phone Number	
36275		Mechanical	
18c. Mass. P.E.	License Number	18d. Mass. P.E. Specialty	
	ave an IWPS operation ar ments in 314 CMR 7.05(2)	nd maintenance manual that complies with the procedure)(g)6.?	s an
			s an
other require ⊠ Yes*	ments in 314 CMR 7.05(2) ☐ No)(g)6.?	s an
other require ⊠ Yes*	ments in 314 CMR 7.05(2) ☐ No)(g)6.? *If Yes, skip to Question 20.	s an
other require ⊠ Yes*	ments in 314 CMR 7.05(2) ☐ No)(g)6.? *If Yes, skip to Question 20.	s an
other require ⊠ Yes*	ments in 314 CMR 7.05(2) ☐ No)(g)6.? *If Yes, skip to Question 20.	s an
other require ⊠ Yes*	ments in 314 CMR 7.05(2) ☐ No)(g)6.? *If Yes, skip to Question 20.	s an
other require ⊠ Yes* 19a. Explain	ments in 314 CMR 7.05(2) No why you do not have an IV)(g)6.? *If Yes, skip to Question 20.	s an
other require ☑ Yes* 19a. Explain	ments in 314 CMR 7.05(2) No why you do not have an IV	*If Yes, skip to Question 20. VPS operation and maintenance manual.	s an
other require ⊠ Yes* 19a. Explain 20. Are you k ⊠ Yes	ments in 314 CMR 7.05(2) No Why you do not have an IV eeping your IWPS operation	*If Yes, skip to Question 20. VPS operation and maintenance manual.	s an



Bureau of Waste Prevention - Industrial Wastewater

Additional IWPS Form Use With BWP IW 38 & BWP IW 39

W205023	
Transmittal Number	
. •	
Facility ID# (if known)	
BWP IW 39	
Permit Code	

Instructions: Submit a completed copy of this form for each additional Industrial Wastewater Pretreatment System (IWPS) not identified on your BWP IW 38/BWP IW 39 permit application.

Industrial Wastewater Pretreatment System (IWPS) Information

NOTE: Question numbers on this form are identical with those on the BWP IW 38/BWP IW 39 permit application or Industrial Sewer Connection Certification forms. Questions 1 and 1a have been intentionally omitted.

1b. Please p	rovide a unique identifier	(i.e. name) for this IWPS:
HD-3 (CUB) System (HFV	Fluoride Wastewater Trea N)	atment
1c. What is ti	he Total Design Capacity	of this IWPS?
24,000		
Gallons Per Day	/	
1d. What is the	he Average Daily Flow of	this IPWS? (Estimate if this is a new facility.)
17,000	<u></u>	
Gallons Per Day		
1e. What is the	ne Maximum Daily Flow o	f this IWPS? (Estimate if this is a new facility.)
19,000		
Gallons Per Day	, ·	
Categorical Ir	ndustrial User (CIU) stand	sted to meet all local discharge standards and the applicable ards in 40 CFR Chapter I, Subchapter N?
⊠ Yes	□ No*	*If No, you must take immediate steps to address the non- compliance BEFORE you can submit this application.
3. Does this I\ as defined in :	WPS treat hazardous indu 314 CMR 7.02?	strial wastewater or hazardous industrial wastewater sludge
⊠ Yes	□ No*	*If No, skip to Question 12.
3a. Are you tre products?	eating concentrated chem	ical baths, e.g. spent chemical baths, or off-specification
⊠ Yes	□ No*	*If No, skip to Question 4.
3b. If Yes, des	cribe the concentrated ch	emical baths you are treating:
Concentrated	hydrofluoric acid etching s	solutions and rinsewaters



Additional IWPS Form Use With BWP IW 38 & BWP IW 39

W205023
Transmittal Number
Facility ID# (if known)
BWP IW 39
Permit Code

NPS Informat	ion (continued)	
4. Does your IWP process" as define	PS meet the require ed in 310 CMR 30.0	ments of "treatment which is an integral part of the manufacturing 010?
⊠ Yes*	□ No	*If Yes, skip to Question 7.
5.Do you store ha generated in your	azardous industrial v IWPS or in your pr	wastewater or hazardous industrial wastewater sludge that is oduction processes and stored in tanks or containers?
located in a Drinking	g Water Zone (see Se	age of hazardous industrial wastewater or sludge and your IWPS is ection 17C of the Instructions; reference language in 310 CMR 30.605), V 38 or BWP IW 39 permit. You must use form BWP IW 40 instead.
☐ Yes	□ No*	*If No, skip to Question 7.
6. Are you in comp 343? (See Section	pliance with the req n 17C in the Instruc	uirements for tanks and containers in 310 CMR 30.342 and tions)
☐ Yes	□ No*	*If No, you must take immediate steps to address the non- compliance BEFORE you can submit this application.
7. Do you have a lidentification number		Protection Agency (EPA) hazardous waste generator
⊠ Yes	□ No*	*If No, skip to Question 7b.
7a. What is your E	PA identification nu	umber?
MAR000010504 EPA ID#		Skip to Question 8.
	ou do not have an E	EPA identification number.
8. Do you have a v	isible sign in place	that warns against unauthorized entry into the IWPS area?
⊠ Yes*	□No	*If Yes, skip to Question 9.
8a. Explain why yo	ou do not have a vis	ible sign in place.



Additional IWPS Form Use With BWP IW 38 & BWP IW 39

VV205023	
Transmittal Number	
Facility ID# (if known)	
BWP IW 39	
Permit Code	

Additional IWPS Information (continued)

9.Do you have	the required spill containmer	nt for the IWPS? (See Section 17C in the Instructions.)
⊠ Yes*	□No	*If Yes, skip to Question 10.
9a. Explain wh	y you do not have the require	d spill containment.
10. Is your IWF Instructions.)	PS located on land subject to	flooding from a 100-year storm? (See Section 17C in the
☐Yes	⊠ No*	*If No, skip to Question 12.
11. Are you in o	compliance with the flood-productions.)	ofing provisions in 310 CMR 30.701(2)? (See Section
☐ Yes*	□No	*if Yes, skip to Question 12.
11a. Explain wh	y you are not in compliance v	with the flood-proofing provisions in 310 CMR 30.701(2).
12. What type o	f IWPS do you have? (Check	all that apply.)
☐ Fully Automa	ted Industrial Wastewater Pre	etreatment System (FAIWPS)
☑ Continuous D	ischarge IWPS	☐ Batch IWPS
13. is the IWPS	exempt from classification? (See Section 17C in the Instructions.)
☐ Yes*	⊠ No	*If Yes, skip to Question 14.
13a. What is the Treatment Facilit		See 257 CMR 2.13: Classification of Wastewater
☐ Class 1I	☐ Class 2I	☐ Class 3I
⊠ Class 4I	☐ Class 5 or 6	Class 1M
☐ Class 2M	☐ Class 3M	☐ Class 4M



Additional IWPS Form Use With BWP IW 38 & BWP IW 39

W205023	
Transmittal Number	
.Facility ID# (if known)	
BWP IW 39	
Permit Code	

Additional IWPS Information (continued)

13b. How was t	ne IWPS' classification	determined?
☐ 13b1. In acco	ordance with the requir	rements in 314 CMR 7.05(2)(g) 4. c. or d.
☐ 13b2. By the	Board of Certification	of Operators of Wastewater Treatment Facilities
☑ 13b3. Both		
14. Is the IWPS 17C in the Instru		with the requirements of 314 CMR 7.05(2)(g) 5? (See Section
⊠ Yes*	□ No	*If Yes, skip to Question 15.
14a. Explain why	y the IWPS is not staff	ed in accordance with 314 CMR 7.05(2)(g) 5.
-		
15. Is this your fi IWPS? Or, is thi or BWP IW 39 pe	s application a reques	under Permit Category BWP IW 38 or BWP IW 39 for the it for modification of the IWPS that currently has a BWP IW 38 *If Yes, you need to submit as an attachment the process
2, 100		flow diagram and description of the principal treatment processes for your IWPS.
16. How many at	tachments are include	ed with this application in response to Question 15?
	which includes PFD's a III 5 IWPS's - Atta	
		VPS been designed and constructed in compliance with the et forth in 314 CMR 7.05(2)(g)3?
⊠ Yes	☐ No*	*If No, skip to Question 17b.
17a. What is the engineering plans		ered Professional Engineer (MAPE) signature date on the
01/17/2003 Date		Skip to Question 18.



Additional IWPS Form Use With BWP IW 38 & BWP IW 39

WZU3UZ3	
Transmittal Number	
Facility ID# (if known)	
BWP IW 39	

Permit Code

		ion and IWPS have not been designed and constructed in ruction standards as set forth in 314 CMR 7.05(2)(g)3.
	•	
•		,
	e name of the Massachu signed your engineering	usetts Registered Professional Engineer (MAPE) w ho reviewed plans:
Alan E. Moore	· · · · · · · · · · · · · · · · · · ·	412-269-4330
18a. Name		18b. Phone Number
42998		<u>Mechanical</u>
18c. Mass. P.E. Li	cense Number	18d. Mass. P.E. Specialty
⊠ Yes*	□ No	*If Yes, skip to Question 20.
19a. Explain w	hy you do not have an I\	WPS operation and maintenance manual.
20 Are vou kee		ion and maintenance manual current?
20.740 you no	,	ion and manifestation manda. Contents
⊠ Yes	□ No	
21. Are you imp	olementing your IWPS o	peration and maintenance plan manual?
⊠ Yes	□ No	



Bureau of Waste Prevention – Industrial Wastewater

Additional IWPS Form Use With BWP IW 38 & BWP IW 39

W205023	
Transmittal Number	
· ·	
Facility ID# (if known)	
BWP IW 39	
Permit Code	

Instructions: Submit a completed copy of this form for each additional Industrial Wastewater Pretreatment System (IWPS) not identified on your BWP IW 38/BWP IW 39 permit application.

Industrial Wastewater Pretreatment System (IWPS) Information

NOTE: Question numbers on this form are identical with those on the BWP IW 38/BWP IW 39 permit application or Industrial Sewer Connection Certification forms. Questions 1 and 1a have been intentionally omitted.

1h Please n	rovide a unique identifi	er (i.e. name) for this IWPS:
	Acid Waste Neutraliza	
	he Total Design Capac	ity of this IWPS?
792,000 Gallons Per Day		
·		of this IPWS? (Estimate if this is a new facility.)
Gallons Per Day		
1e. What is the 500,000 Gallons Per Day	· · · · · ·	v of this IWPS? (Estimate if this is a new facility.)
		ructed to meet all local discharge standards and the applicable andards in 40 CFR Chapter I, Subchapter N?
⊠ Yes	□ No*	*If No, you must take immediate steps to address the non- compliance BEFORE you can submit this application.
	WPS treat hazardous i 314 CMR 7.02?	ndustrial wastewater or hazardous industrial wastewater sludge
⊠ Yes	□ No*	*If No, skip to Question 12.
3a. Are you tre	eating concentrated ch	emical baths, e.g. spent chemical baths, or off-specification
⊠ Yes	□ No*	*If No, skip to Question 4.
3b. If Yes, des	scribe the concentrated	I chemical baths you are treating:
Concentrated	acidic and caustic etch	ning solutions



Additional IWPS Form Use With BWP IW 38 & BWP IW 39.

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· ·	
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Pormit Codo	

IWPS Inform	nation (continued)	
	WPS meet the requirement ofined in 310 CMR 30.010	ents of "treatment which is an integral part of the manufacturing 0?
⊠ Yes*	□ No	*If Yes, skip to Question 7.

_		
		vastewater or hazardous industrial wastewater sludge that is oduction processes and stored in tanks or containers?
located in a Dri	nking Water Zone (see Sed	ge of hazardous industrial wastewater or sludge and your IWPS is ction 17C of the Instructions; reference language in 310 CMR 30.605), 38 or BWP IW 39 permit. You must use form BWP IW 40 instead.
☐ Yes	□ No*	*If No, skip to Question 7.
	compliance with the requ ction 17C in the Instructi	uirements for tanks and containers in 310 CMR 30.342 and ions)
☐Yes	□ No*	*If No, you must take immediate steps to address the non- compliance BEFORE you can submit this application.
7. Do you have identification n		Protection Agency (EPA) hazardous waste generator
⊠ Yes	□ No*	*If No, skip to Question 7b.
7a. What is yo	ur EPA identification nur	mber?
MAR00001050)4	Skip to Question 8.
	y you do not have an EF	PA identification number.
8. Do you have	a visible sign in place th	hat warns against unauthorized entry into the IWPS area?
⊠ Yes*	□No	*If Yes, skip to Question 9.
8a. Explain why	y you do not have a visit	ole sign in place.



Additional IWPS Form Use With BWP IW 38 & BWP IW 39

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Additional IWPS Information (continued)

9.Do you have th	e required spill cont	ainment for the IWPS	? (See Section 17C in the Ir	nstructions.)
⊠ Yes*	□ No	*If Yes, ski _l	p to Question 10.	·
9a. Explain why you do not have the required spill containment.				
· · · · · · · · · · · · · · · · · · ·				<u> </u>
10. Is your IWPS Instructions.)	located on land sub	ject to flooding from a	100-year storm? (See Sect	ion 17C in the
☐ Yes	⊠ No*	*If No, skip	to Question 12.	
11. Are you in cor 17C in the Instruc		od-proofing provisions	in 310 CMR 30.701(2)? (Se	ee Section
☐ Yes*	□No	*If Yes, skip	to Question 12.	
11a. Explain why	you are not in comp	liance with the flood-pr	roofing provisions in 310 CM	IR 30.701(2).
	· .	·		
		. · ·	· · · · · · · · · · · · · · · · · · ·	
12. What type of I	WPS do you have? ((Check all that apply.)		
☐ Fully Automate	d Industrial Wastewa	ater Pretreatment Syst	em (FAIWPS)	
☑ Continuous Dis	charge IWPS	☐ Batch IW	/PS	
13. Is the IWPS ex	empt from classifica	ation? (See Section 17	C in the Instructions.)	
☐ Yes*	⊠ No	*If Yes, skip	to Question 14.	
13a. What is the cl Treatment Facilitie		NPS? (See 257 CMR	2.13: Classification of Waste	ewater
Class 1I	☐ Clas	s 2I	☐ Class 3I	
☑ Class 4I	☐ Clas	s 5 or 6C	☐ Class 1M	
☐ Class 2M	☐ Class	s 3M	☐ Class 4M	٠



Additional IWPS Form Use With BWP IW 38 & BWP IW 39

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Additional IWPS Information (continued)

13b. How was	the IWPS' classificat	ion determined?
☐ 13b1. In ac	cordance with the req	uirements in 314 CMR 7.05(2)(g) 4. c. or d.
☐ 13b2. By th	e Board of Certification	on of Operators of Wastewater Treatment Facilities
☑ 13b3. Both		
14. Is the IWP 17C in the Ins		ce with the requirements of 314 CMR 7.05(2)(g) 5? (See Section
⊠ Yes*	□No	*If Yes, skip to Question 15.
14a. Explain w	hy the IWPS is not st	affed in accordance with 314 CMR 7.05(2)(g) 5.
15. Is this your IWPS? Or, is to BWP IW 39 ☑ Yes*	this application a requ	n under Permit Category BWP IW 38 or BWP IW 39 for the lest for modification of the IWPS that currently has a BWP IW 38 *If Yes, you need to submit as an attachment the process flow diagram and description of the principal treatment processes for your IWPS.
16. How many	attachments are inclu	ided with this application in response to Question 15?
	nt which includes PFD r all 5 IWPS's — At	
		I IWPS been designed and constructed in compliance with the s set forth in 314 CMR 7.05(2)(g)3?
⊠ Yes	□ No*	*If No, skip to Question 17b.
17a. What is th engineering pla		sistered Professional Engineer (MAPE) signature date on the
05/17/1996 Date		Skip to Question 18.



Additional IWPS Form Use With BWP IW 38 & BWP IW 39

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		ion and IWPS have not been designed and constructed in ruction standards as set forth in 314 CMR 7.05(2)(g)3.
	he name of the Massach d signed your engineering	usetts Registered Professional Engineer (MAPE) who reviewed g plans:
Richard S. R	eid	412-269-4330
18a. Name		18b. Phone Number
30892		<u>Mechanical</u>
18c. Mass. P.E.	License Number	18d. Mass. P.E. Specialty
other require	ments in 314 CMR 7.05(2	nd maintenance manual that complies with the procedures and 2)(g)6.? *If Yes, skip to Question 20.
19a. Explain	why you do not have an l	WPS operation and maintenance manual.
20. Are you ke	eeping your IWPS operat	ion and maintenance manual current?
⊠ Yes	□ No	
21. Are you in	nplementing your IWPS o	peration and maintenance plan manual?
⊠ Yes	☐ No	

Intel Massachusetts, Inc. - Hudson, MA

Fab 17 Semiconductor Manufacturing Facility

Industrial Pre-Treatment Wastewater Systems and Discharges

Intel Massachusetts, Inc. Semiconductor Manufacturing Facility (Fab 17) discharges pretreated industrial wastewater to the Hudson Publicly Owned Treatment Works (POTW). The Fab 17 effluent consists of several wastewater streams, of which the two principal sources are sanitary and manufacturing process aqueous wastewaters.

Sanitary wastewater flows are directed to the Town of Hudson POTW untreated. The following Process Flow Diagrams detail the five (5) pretreatment systems for process wastewaters pretreated on the Intel site prior to discharge to the Hudson POTW.

The wastewater pretreatment systems for these identified streams are:

- 1. HD-1 Acid Waste Neutralization System (AWN)
- 2. HD-3 (CUB) Acid Waste Neutralization System (AWN)
- 3. HD-3 (CUB) Fluoride Wastewater Treatment System (HFW)
- 4. HD-3 (CUB) Slurry Copper Waste Treatment System (SCW)
- 5. HD-1 Dilute Lead Waste Treatment System (DLW)

The AWN systems adjust pH with addition of hydrochloric acid (HCl), sulfuric acid (H₂SO₄), and sodium hydroxide (NaOH). Wastewaters with low concentrations of hydrogen fluoride or other fluoride compounds are treated in the HFW system by hydroxide precipitation using a lime solution (CaOH). Low concentrations of dilute lead (Pb) and copper (Cu) waste rinse solutions are each treated by ion exchange in the DLW and SCW pretreatment systems respectively. More detail is provided in the following descriptions.

HD-1 Acid Waste Neutralization System (AWN)

Corrosive rinsewaters from manufacturing areas in HD1 are fed into the HD1 Acid Waste Neutralization (AWN) treatment plant composed of three 3,000 gallon FRP tanks in a continuous-flow, cascading arrangement. The wastewater is neutralized with 96% Sulfuric Acid and 50% Sodium Hydroxide, dosed into each of the three neutralization tanks. Tanks #1 and #2 are equipped with a pair of fine- and gross (bulk)-dosing pumps for each acid and caustic. Tank #3 is only equipped with one fine-dosing pump for acid and one for caustic.

The flow is monitored for pH by means of lateral-insertion, redundant pH probes on each tank. Each tank is equipped with a mixer to provide the necessary agitation. Tanks #2 and #3 are equipped with level transmitters to measure height of liquid in the tanks. Effluent out of Tank #3 is monitored for flow and pH. In the event of a pH reading below 5.5 or above 9.5, a set of Divert Pumps will activate and route the wastewater to a set of two interconnected 3,000 gal tanks designated as GCW-Floor Spill tanks. From here the wastewater is re-routed back to NT-1 to be treated again.

HD-3 (CUB) Acid Waste Neutralization System (AWN)

Corrosive rinsewaters from manufacturing areas in Fab 17 are fed into the HD3 (CUB) Acid Waste Neutralization (AWN) treatment plant which consists of four neutralization tanks in a continuous-flow, cascading arrangement. Tank #1 tank receives waste from Fab 17 manufacturing operations, HF waste treatment (HFW), condenser blow down, supernate from the sludge decant tanks, Regeneration Waste Storage tanks, Grey Water high level blow off, Scrubber blow down, and the Floor Spill Collection system.

Influent into the four tanks is mixed and pH adjusted using 32% hydrochloric acid (HCl) and 50% sodium hydroxide (NaOH) supplied by automatic dosing pumps controlled through continuously monitored pH probes in each tank. The final effluent flows through a flume where it is monitored for pH and flow and then gravity flows to the HD4 outfall building and into the Town of Hudson's sewer system.

HD-3 (CUB) Fluoride Wastewater Treatment System (HFW)

The Hydrofluoric Acid Waste (HFW) process waste system consists of a buffer tank and pumps, an HF waste tank, lime slurry feed system, polymer addition system, flocculation tank, inclined plate separator (clarifier), sludge decant tanks, and neutralization waste transfer tank and pumps. The buffer tank receives concentrated and dilute HF from the Fab 17 manufacturing areas. Other waste side streams that enter the buffer tank include sludge decant tanks supernate water and cooling tower condensate sump sludge.

The purpose of the Fluoride waste treatment system is to reduce Fluoride levels in the waste stream from approximately 250 ppm (2,000 peak ppm) to 20 ppm or less. Onspec waste is pumped from the neutralization waste transfer tank to the HD3 (CUB) Acid Waste Neutralization (AWN) treatment system which then flows via gravity to the city sewer. Off-spec waste is recycled back to the buffer tank for further treatment.

HD-3 (CUB) Slurry Copper Waste Treatment System (SCW)

Slurry rinsewaters, or Slurry Copper Waste (SCW), from the Fab 17 copper polishing operations are directed into 3 buffer tanks which gravity feed to the SCW pH adjust tank. The tank has pH sensor/transmitters which control the addition of acid or caustic. 4% Sodium hydroxide (NaOH) or 96% sulfuric acid is added to the pH tank by means of metering pumps. The slurry copper waste then overflows to the SCW concentration tank. A pair of transfer pumps automatically pump the waste to the ceramic membrane filters. A portion of the feed is directed to the solids holding tank using an automatic valve to maintain the desired solids concentration. Permeate or filtrate is controlled using an automatic valve and is directed to the ION Exchange feed tank.

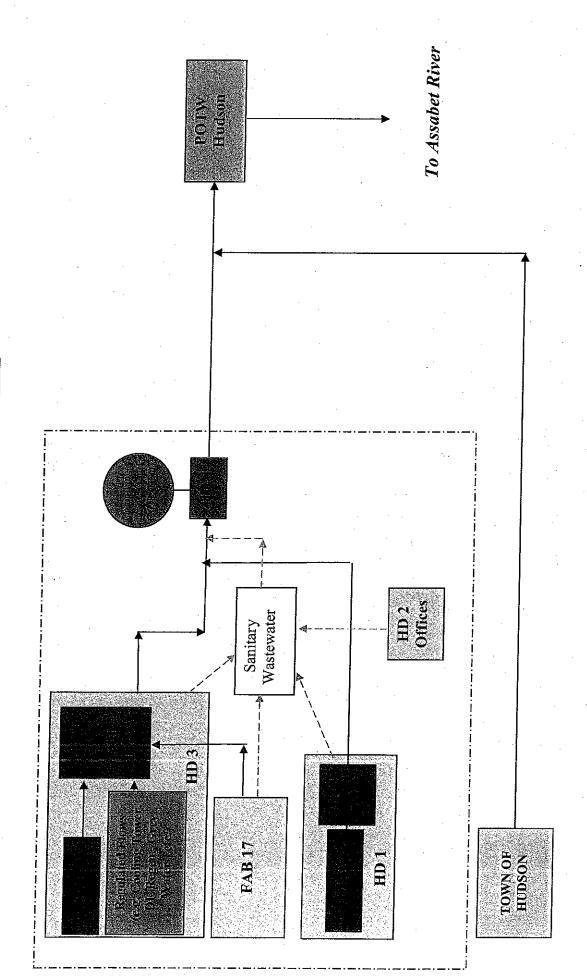
The filtered slurry copper waste collected in the ION Exchange feed tank is automatically pumped to the activated carbon filter and SCW ION Exchange beds by a pair of transfer pumps. The activated carbon filter and ION Exchange beds include differential pressure switches to monitor any build up of solids in the media. A copper monitor is used to measure copper breakthrough from the lead and lag ION Exchange beds. When copper breakthrough occurs on the lead bed, the lead bed is removed from service and a fresh bed is placed online. Effluent from the ION Exchange beds is then directed to the HD3 (CUB) Acid Waste Neutralization (AWN) system.

HD-1 Dilute Lead Waste Treatment System (DLW)

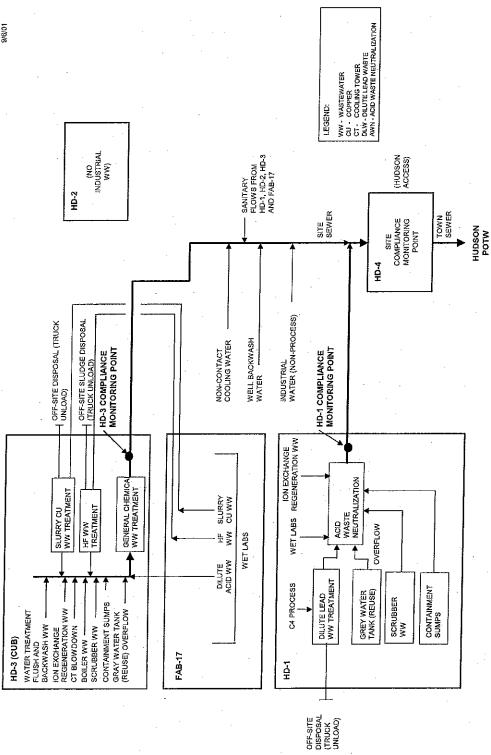
The Dilute Lead Waste (DLW) Treatment system provides preliminary treatment for the weaker lead-based waste flow, removing enough of the metal wastestream to allow it to be discharged into the HD1 AWN system. Dilute Waste flows out of a collection tank and is pumped through two bag filter canisters, which screen the flow for any large particulate. The pressure within the canisters is monitored by gauges mounted on top of the units. The waste then travels up to a valve manifold header that feeds three Cation Ion Exchange Vessels. The line leaving the DLW Ion Exchange Beds leads to the AWN Treatment System.

INTEL MASSACHUSETTS INC. - HUDSON, MA

SITE WASTEWATER FLOWS

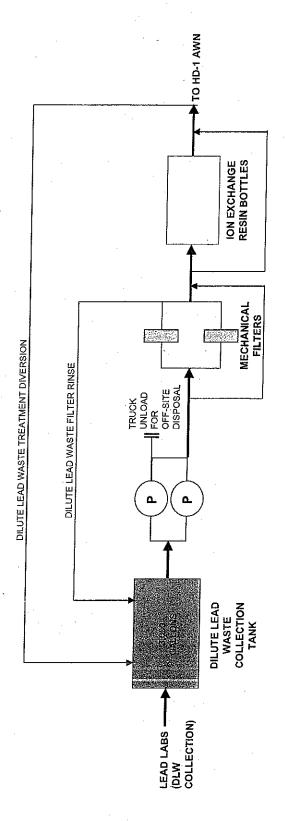


January 25, 2008

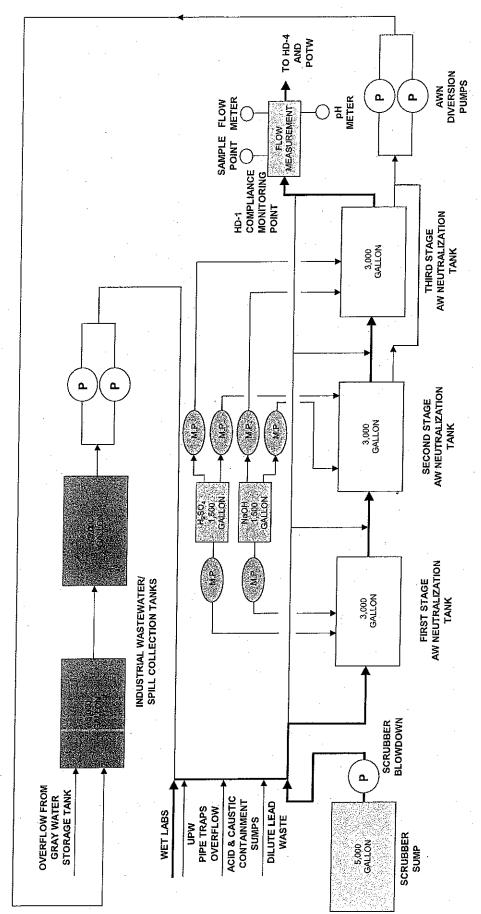


SITE WASTEWATER MANAGEMENT PLAN INTEL MASSACHUSETTS HUDSON, MASSACHUSETTS

FIGURE 1

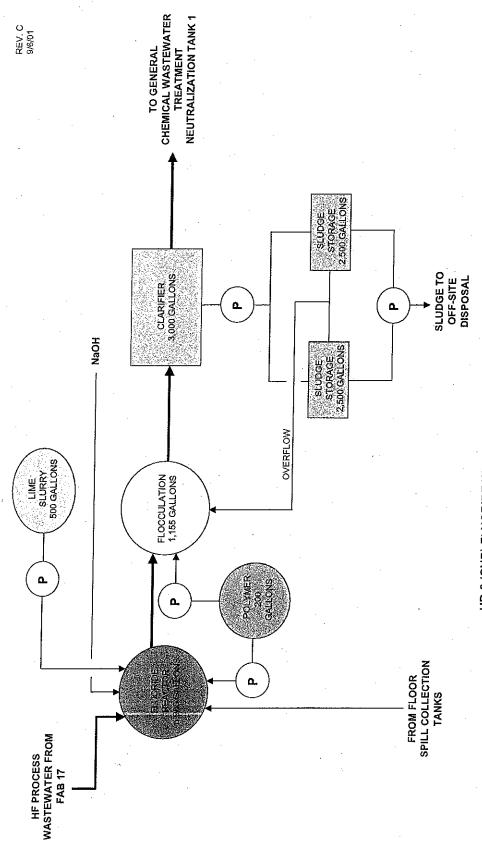


HD-1 DILUTE LEAD WASTE (DLW TREATMENT SYSTEM) FIGURE 2



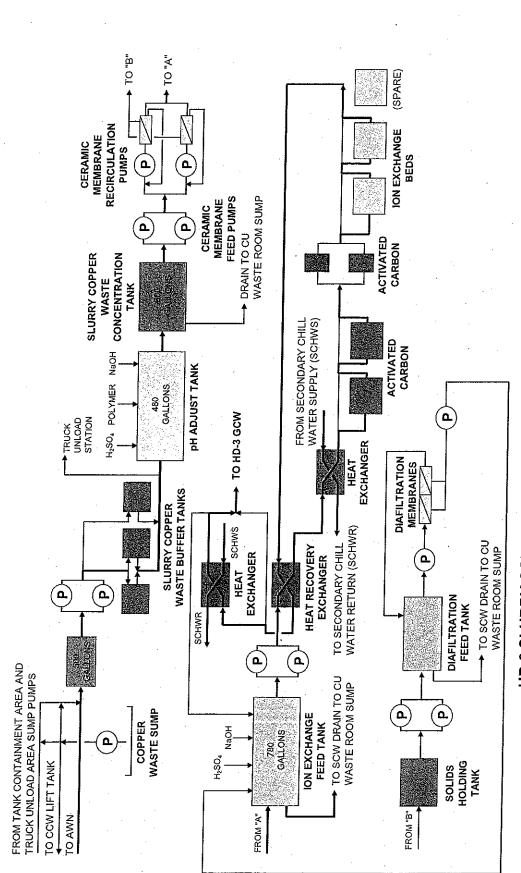
HD-1 ACID WASTE NEUTRALIZATION (AWN) TREATMENT PLANT FIGURE 3

· PLANGERIA II



HD-3 (CUB) FLUORIDE WASTEWATER TREATMENT SYSTEM

FIGURE 4



HD-3 SLURRY COPPER WASTE (SCW) TREATMENT SYSTEM

FIGURE 5

HD-3 (CUB) AWN WASTEWATER TREATMENT SYSTEM FIGURE 6